## PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF AN EXISTING TRAFFIC CONTROL SIGNAL (ULTIMATE PHASE) AT THE INTERSECTION OF MD ROUTE 187 (OLD GEORGETOWN ROAD) AND 1-270 SB AND NB RAMPS IN MONTGOMERY COUNTY. MD ROUTE 187 (OLD GEORGETOWN ROAD) IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

II. INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA SIX (6) PHASE, SEMI-TRAFFIC-ACTUATED MODE. THERE WILL BE AN EXCLUSIVE LEFT TURN PHASE FOR SOUTHBOUND AND NORTHBOUND MD 187 MOVEMENT. THE MD 187 THROUGH MOVEMENTS ARE TO OPERATE CONCURRENTLY. EASTBOUND MOVEMENTS FROM THE 1-270 RAMPS WILL OPERATE CONCURRENTLY. AN ADDITIONAL EASTBOUND RIGHT TURN PHASE ON THE 1-270 RAMP WILL OPERATE CONCURRENTLY WITH THE EASTBOUND 1-270 RAMP MOVEMENT. CONCURRENT PEDESTRIAN PHASES WILL BE PROVIDED ACROSS THE EAST AND WEST LEGS OF MD 187.

A FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WITH VIDEO TRAFFIC DETECTION SYSTEM, AND L.A.U. PANEL WITH ASSOCIATED HARNESS HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET WILL BE INSTALLED AT THIS LOCATION.

III. INTERCONNECTION

THE EXISTING 50 PAIR VOICE GRADE INTERCONNECT CABLE BETWEEN THE INTERSECTIONS OF MD 187 AT TUCKERMAN LANE AND MD 187 AT ROCK SPRING DRIVE IS TO BE MAINTAINED AND REWIRED AS SHOWN ON THE WIRING DIAGRAM.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE, EXCLUDING INTERCONNECT, TO THE APPROPRIATE TERMINALS AND PROPERLY LABELING EACH CABLE. DISCONNECTING AND SPLICING OF INTERCONNECT CABLE SHALL BE PERFORMED BY MONTGOMERY COUNTY FORCES. THE CONTRACTOR SHALL RUN THE INTERCONNECT CABLE INTO THE BASE OF CABINET AND PROPERLY TAG. CONTACT MR BOB GONZLES AT (240) 777-8761 SEVENTY TWO HOURS IN ADVANCE OF THE INTENDED WORK.

## IV. PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT THREE ARE AS FOLLOWS:

MR. CHARLIE WATKINS DISTRICT ENGINEER PHONE (301) 513-7311

V. MAINTENANCE OF TRAFFIC

STANDARD NO. 104.43 (SHOULDER WORK)

MR. MAJID SHAKIB ASSISTANT DISTRICT ENGINEER-TRAFFIC PHONE: (301) 513-7358

MR. AUGUSTINE REHBISH UTILITY ENGINEER PHONE: (301) 513-7350

MR. ROBERT GONZALES TRAFFIC ENGINEER

PHONE: (410) 787-7630

MR. RICHARD L. DAFF, SR.

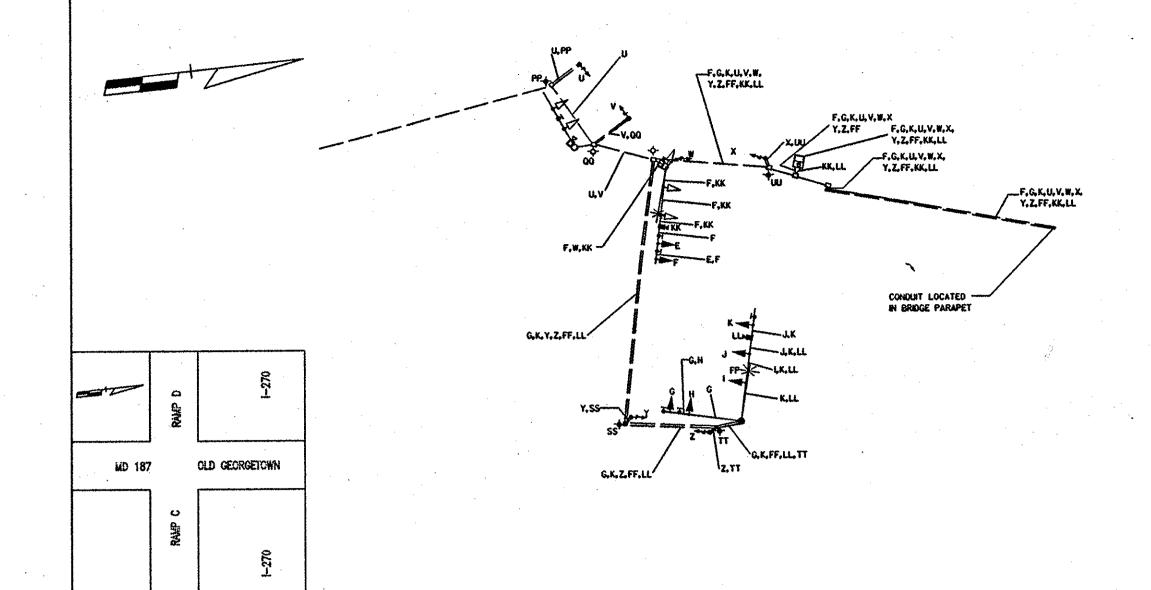
CHIEF, TRAFFIC OPERATIONS DIVISION

SHALL BE REFERENCED: STANDARD NO. 104.00 STANDARDS NO. 104.37, 104.38 (LANE CLOSURE) STANDARDS NO. 104.39, 104.40 (INTERSECTION FAR SIDE CLOSURE)

THE FOLLOWING STANDARD TRAFFIC CONTROL NUMBERS

MONTGOMERY COUNTY DPWT PHONE: (240) 777-8761

THE POWER COMPANY REPRESENTATIVE IS POTOMAC ELECTRIC POWER COMPANY ELIZA HEMINGWAY PHONE: (202) 872-2000



WIRING LEGEND:

A.E.F.G.H.I.J.K. — 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) L.M.N.O.P.S.T

U, V, W, X, Y, Z, \_\_\_ 3-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

\_\_\_ 2-CONDUCTOR ELECTRICAL CABLE (NO. 12 A.W.G.)

\_\_\_ VIDEO TRAFFIC DETECTION CABLE

PP.QQ,SS,TT.UU, - STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)

+ — 3/4" × 10' GROUND ROD

## EQUIPMENT LIST 'A'

A. EQUIPMENT TO BE SUPPLIED BY THE SHA.

SPECIFICATION QUANTITY UNIT SECTION

DESCRIPTION

FLAT SHEET ALUMINUM SIGNS CONSISTING OF:

- 2 EACH R3-5L (30" X 36") - MAST ARM MOUNT - 1 EACH R3-6 (30" X 36") - MAST ARM MOUNT

- 1 ASSOCIATED MD 187 SHIELD ASSEMBLY (48" X 75")

- 1 EACH R3-2 (30' X30') - MAST ARM MOUNT

## EQUIPMENT LIST 'B'

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

		SPECIFICATIO	IN .
QUANTI TY	UNI T	SECTI ON	DESCRIPTION
340	LF	556	12 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
200	LF	556	24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
9	CY	8Ø1	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
1	EA	SP.	FURNISH AND INSTALL 27-FOOT STEEL POLE WITH TWIN 50-FOOT AND 70-FOOT MAST ARMS
21	EA	81 4	FURNISH AND INSTALL 12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION
54	SF	813	INSTALL OVERHEAD SIGN
1	EA .	818	FURNISH AND INSTALL 20-FOOT LIGHTING ARM ON SIGNAL STRUCTURE
1	EA	8Ø6	FURNISH AND INSTALL 250 WATT HIGH PRESSURE SODIUM LAMP AND LUMINAIRE WITH PHOTOCELL
6	EA	804	FURNISH AND INSTALL GROUND ROD-3/4 INCH DIAMETER X 10-FOOT LENGTH
5	EA	SP	FURNISH AND INSTALL 10-FOOT BREAKWAY PEDESTAL POLE
2	EA	81 4	FURNISH AND INSTALL 12-INCH PEDESTRIAN SIGNAL HEAD SECTION POLE MOUNT
10	EA	81 4	FURNISH AND INSTALL 12-INCH PEDESTRIAN SIGNAL HEAD SECTION PEDESTAL MOUNT
2	EA	81 1	FURNISH AND INSTALL ELECTRICAL HANDHOLE
445	LF	81 Ø	FURNISH AND INSTALL ELECTRICAL CABLE- 2 CONDUCTOR (ND 12 AWG)
1370	LF	81 Ø	FURNISH AND INSTALL ELECTRICAL CABLE- 3 CONDUCTOR (NO 14 AWG)
1280	LF	81 Ø	FURNISH AND INSTALL ELECTRICAL CABLE- 5 CONDUCTOR (NO 14 AWG)
730	LF	SP	FURNISH AND INSTALL VIDEO TRAFFIC DETECTION CABLE
90	LF	81 Ø	FURNISH AND INSTALL NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
1 40	LF	805	FURNISH AND INSTALL 3º SCHEDULE 80 RIGID PVC CONDUIT- TRENCHED
170	LF	8Ø5	FURNISH AND INSTALL 3° SCHEDULE 80 RIGID PVC CONDUIT- BORED
6	EA	SP	CUT. CLEAN AND CAP TRAFFIC SIGNAL STRUCTURE
1	LS	SP	REMOVE AND DISPOSE OF EXISTING EQUIPMENT
2	EA	SP	FURNISH AND INSTALL VIDEO TRAFFIC DETECTION SYSTEM

PHASE CHART

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PHASE 2 & 6	G	G	G	R	R	G	G	G	G	G	R	R	W	N	W	W	DW	DW	·Ψ
PED CLEAR	G	G	G	R	R	G	G	G	G	G	R	R	FL/DW FL	/DW FL			DW	DW	Ŧ
2 & 6 CHANGE	Y	Y	Y	R	R	G	G	Y	Y	Y	R	R	DWD	WD	W	DW	W	W	•
PHASE 2 & 5	R	R	R	G	G	G	G	R	R	R	R	R	DWD	WD	W	DW	FL/DW	FL/DW	hŢ <del>←</del>
2 & 5 CHANGE	R	R	R	Y	Y	Y	Y	R	R	R	R	R	DWD	WI	W(	DW	DW	DW	<b>-</b>
PHASE 4	R	R	R	R	R	R	R	G	G	G	G	G	DW D	WI	) W	DW	DW	$\overline{DW}$	<b>₩</b>
4 CHANGE	R	R	R	R	R	R	R	Y	Y	Y	Y	Y	DWI	MD	W	DW	DW	$\overline{\mathrm{DW}}$	
FLASHING OPERATION	FL/Y	FL/Y	FL	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	DARK D	ARK DA	ARK	DARK	DARK	DARK	÷ ←

REVISIONS 5 REDLINE REVISION NO. 5
NEW SHEET 9/4/2001 (18/6) TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION REPLACEMENT SHEET FILE DIRECTOR, TRAFFIC & SAFETY

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION

TS-14A

I-270 INTERCHANGES AT ROCKLEDGE DRIVE AND MD 187 GENERAL INFORMATION SHEET (ULTIMATE PHASE) I-270 RAMP C/RAMP D AT MD 187 (OLD GEORGETOWN ROAD)

DRAWN BY: STEVE RENZI CHECKED BYSTEVE RENZI S.H.A. NO. SHEET NO. COUNTY: MONTGOMERY T.I.M.S. NO. LOG MILE: 15018703.73 D-311

ENGINEERS AND PLANNERS 10 NORTH PARK DRIVE HUNT VALLEY, MARYLAND (410) 316-7800

SCALE:

DATE: